**THIRD SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT**ATTY. DOCKET NO.
0942.5040001/RWE/HCCAPPLICATION NO.
09/845,157FIRST NAMED INVENTOR
SMITH *et al.*FILING DATE
May 1, 2001ART UNIT
1637**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM16	WO 01/68895 A1	09/20/2001	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS	17	Pfeiffer, J.K., <i>et al.</i> , "Structure-Based Moloney Murine Leukemia Virus Reverse Transcriptase Mutants with Altered Intracellular Direct-Repeat Deletion Frequencies," <i>J. Virol.</i> 74:9629-9636, American Society for Microbiology (October 2000)
	AT	17	Copy of January 4, 2002, Office Action for U.S. Patent Application No. 09/808,124, Potter <i>et al.</i> , filed March 15, 2001

EXAMINER

DATE CONSIDERED

10/27/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

AUG 31 2004

ATTY. DOCKET NO.
0942.5040001/RWE/HCC

APPLICATION NO.
09/845,157

FIRST NAMED INVENTOR
SMITH *et al.*


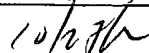
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
N	AR	18	Copy of May 22, 2002, Office Action for U.S. Patent Application No. 09/808,124, Potter <i>et al.</i> , filed March 15, 2001
N	AS	18	Copy of December 3, 2002, Office Action for U.S. Patent Application No. 09/808,124, Potter <i>et al.</i> , filed March 15, 2001
N	AT	18	Copy of August 1, 2003, Office Action for U.S. Patent Application No. 09/808,124, Potter <i>et al.</i> , filed March 15, 2001

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AUG 31 2004
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ATTY. DOCKET NO. 0942.5040001/RWE/HCC	APPLICATION NO. 09/845,157
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FILING DATE May 1, 2001	ART UNIT 1637

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
✓	AR	19	Copy of February 5, 2004, Office Action for U.S. Patent Application No. 09/808,124, Potter <i>et al.</i> , filed March 15, 2001
	AS		
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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
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Smith et al.FILING DATE
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

N	AR	1	Arnold, F.H., et al., "How enzymes adapt: lessons from directed evolution," <i>TRENDS Biochem. Sci.</i> 26:100-106, Elsevier Science Ltd. (February 2001)
N	AS	1	Bailey, J.M., "Interpretation of Nitrocellulose Filter Assays of Protein-Nucleic Acid Binding," <i>Anal. Biochem.</i> 93:204-206, Academic Press, Inc. (1979)
N	AT	1	Beard, W.A., et al., "Vertical-scanning Mutagenesis of a Critical Tryptophan in the Minor Groove Binding Track of HIV-1 Reverse Transcriptase. Molecular Nature of Polymerase-Nucleic Acid Interaction," <i>J. Biol. Chem.</i> 273:30435-30442, The American Society for Biochemistry and Molecular Biology, Inc. (1998)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Bebenek, K., and Kunkel, T.A., "5. The Fidelity of Retroviral Reverse Transcriptases," in <i>Reverse Transcriptase</i> , Skalka, A.M. and Goff, S.P., eds., Cold Spring Harbor Laboratory Press, Plainview, New York, pp. 85-102 (1993)
	AS	2	Bebenek, K., et al., "A minor groove binding track in reverse transcriptase," <i>Nat. Struct. Biol.</i> 4:194-197, Nature Publishing Co. (1997)
	AT	2	Cadwell, R.C., and Joyce, G.F., "Randomization of Genes by PCR Mutagenesis," <i>PCR Meth. Appl.</i> 2:28-33, Cold Spring Harbor Laboratory Press (1992)

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	APPLICANT Smith et al.	
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	3	1	Cambillau, C., and Claverie, J.-M., "Structural and Genomic Correlates of Hyperthermostability," J. Biol. Chem. 275:32383-32386, The American Society for Biochemistry and Molecular Biology, Inc. (October 2000)			
	AS	3	1	D'Alessio, J.M., and Gerard, G.F., "Second-strand cDNA synthesis with E. coli DNA polymerase I and RNase H: the fate of information at the mRNA 5' terminus and the effect of E. coli DNA ligase," Nucl. Acids Res. 16:1999-2014, IRL Press Ltd. (1988)			
	AT	3	1	DeStefano, J.J., et al., "Polymerization and RNase H Activities of the Reverse Transcriptases from Avian Myeloblastosis, Human Immunodeficiency, and Moloney Murine Leukemia Viruses Are Functionally Uncoupled," J. Biol. Chem. 266:7423-7431, The American Society for Biochemistry and Molecular Biology, Inc. (1991)			

EXAMINER 	DATE CONSIDERED 6/28/02
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

N	AR	4	DeStefano, J.J., et al., "Characterization of an RNase H deficient mutant of human immunodeficiency virus-1 reverse transcriptase having an aspartate to asparagine change at position 498," Biochim. Biophys. Acta 1219:380-388, Elsevier Science B.V. (1994)
N	AS	4	Ding, J., et al., "Structure and Functional Implications of the Polymerase Active Site Region in a Complex of HIV-1 RT with a Double-stranded DNA Template-primer and an Antibody Fab Fragment at 2.8 Å Resolution," J. Mol. Biol. 284:1095-1111, Academic Press, Inc. (1998)
N	AT	4	Georgiadis, M.M., et al., "Mechanistic implications from the structure of a catalytic fragment of Moloney murine leukemia virus reverse transcriptase," Structure 3:879-892, Current Biology Ltd. (1995)

EXAMINER 	DATE CONSIDERED 10/2/02
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	1	Gerard, G.F., et al., "Poly(2'-O-methylcytidylate) Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," Biochem. 13:1632-1641, The American Chemical Society (1974)
	AS	5	1	Gerard, G.F., and D'Alessio, J.M., "Reverse Transcriptase (EC 2.7.7.49). The Use of Cloned Moloney Murine Leukemia Virus Reverse Transcriptase to Synthesize DNA from RNA," in Methods in Molecular Biology, Volume 16: Enzymes of Molecular Biology, Burrell, M.M., ed., Humana Press, Totowa, NJ, pp.73-93 (1993)
	AT	5	1	Gerard, G.F., et al., "Reverse Transcriptase. The Use of Cloned Moloney Murine Leukemia Virus Reverse Transcriptase to Synthesize DNA from RNA," Mol. Biotechnol. 8:61-77, Humana Press (1997)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	6	Harrison, G.P., et al., "Pausing of reverse transcriptase on retroviral RNA templates is influenced by secondary structures both 5' and 3' of the catalytic site," Nucl. Acids Res. 26:3433-3442, Oxford University Press (1998)
AS	6	Houts, G.E., et al., "Reverse Transcriptase from Avian Myeloblastosis Virus," J. Virol. 29:517-522, American Society for Microbiology (1979)
AT	6	Huang, H., et al., "Structure of a Covalently Trapped Catalytic Complex of HIV-1 Reverse Transcriptase: Implications for Drug Resistance," Science 282:1669-1675, American Association for the Advancement of Science (1998)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	1	Jacobo-Molina, A., et al., "Crystal structure of human immunodeficiency virus type 1 reverse transcriptase complexed with double-stranded DNA at 3.0 Å resolution shows bent DNA," <i>Proc. Natl. Acad. Sci. (USA)</i> 90:6320-6324, National Academy of Sciences of the USA (1993)
	AS	2	1	Kohlstaedt, L.A., et al., "Crystal Structure at 3.5 Å Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," <i>Science</i> 256:1783-1790, American Association for the Advancement of Science (1992)
	AT	2	1	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277, IRL Press Ltd. (1988)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	8	Kneller, D.G., et al., "Improvements in Protein Secondary Structure Prediction by An Enhanced Neural Network," J. Mol. Biol. 214:171-182, Academic Press Ltd. (1990)				
	AS	8	Krug, M.S., and Berger, S.L., "[33] First-Strand cDNA Synthesis Primed with Oligo(dT)," Meth. Enzymol. 152:316-325, Academic Press, Inc. (1987)				
	AT	8	Kumar, S., and Nussinov, R., "How do thermophilic proteins deal with heat?" Cell. Mol. Life Sci. 58:1216-1233, Birkhauser Verlag (August 2001)				

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	AR	2	1	Kunkel, T.A., et al., "[19] Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection," Meth. Enzymol. 154:367-383, Academic Press, Inc. (1987)
	AS	2	1	Kunkel, T.A., et al., "[6] Efficient Site-Directed Mutagenesis Using Uracil-Containing DNA," Meth. Enzymol. 204:125-139, Academic Press, Inc. (1991)
	AT	2	1	Le Grice, S.F.J., "9. Human Immunodeficiency Virus Reverse Transcriptase," in Reverse Transcriptase, Skalka, A.M. and Goff, S.P., eds., Cold Spring Harbor Laboratory Press, Plainview, NY, pp. 163-191 (1993)

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	AR	10	Lehmann, M., and Wyss, M., "Engineering proteins for thermostability: the use of sequence alignments versus rational design and directed evolution," <i>Curr. Opin. Biotechnol.</i> 12:371-375, Elsevier Science Ltd. (August 2001)
	AS	10	Leung, D.W., et al., "A Method for Random Mutagenesis of a Defined DNA Segment Using a Modified Polymerase Chain Reaction," <i>Technique</i> 1:11-15, W.B. Saunders Co. (1989)
	AT	10	McDonnell, M.W., et al., "Analysis of Restriction Fragments of T7 DNA and Determination of Molecular Weights by Electrophoresis in Neutral and Alkaline Gels," <i>J. Mol. Biol.</i> 110:119-146, Academic Press, Inc. (1977)

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	AR	11	1	Mölling, K., et al., "Association of Viral Reverse Transcriptase with an Enzyme degrading the RNA Moiety of RNA-DNA Hybrids," <i>Nature New Biology</i> 234:240-243, Macmillan Journals Ltd. (1971)			
	AS	11	1	Myers, T.W., and Gelfand, D.H., "Reverse Transcription and DNA Amplification by a <i>Thermus thermophilus</i> DNA Polymerase," <i>Biochem</i> 30:7661-7666, The American Chemical Society (1991)			
	AT	11	1	Polesky, A.H., et al., "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591, The American Society for Biochemistry and Molecular Biology, Inc. (1990)			

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R	AR	12	1	Prasad, V.R., "8. Genetic Analysis of Retroviral Reverse Transcriptase Structure and Function," in Reverse Transcriptase, Skalka, A.M. and Goff, S.P., eds., Cold Spring Harbor Laboratory Press, Plainview, NY, pp. 135-162 (1993)
R	AS	12	1	Rost, B., "[31] PHD: Predicting One-Dimensional Protein Structure by Profile-Based Neural Networks," Meth. Enzymol. 266:525-539, Academic Press, Inc. (1996)
R	AT	12	1	Shinnick, T.M., et al., "Nucleotide sequence of Moloney murine leukaemia virus," Nature 293:543-548, Macmillan Journals Ltd. (1981)

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FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE</u> <u>STATEMENT</u>	ATTY. DOCKET NO. 0942.5040001/RWE/MTT	TECH CENTER 1800/2900 15 APPLICATION NO. 09/845,157
	APPLICANT Smith et al.	
	FILING DATE May 1, 2001	GROUP 1623

U.S. PATENT DOCUMENTS							
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	13	Skalka, A.M., "10. Endonuclease Activity Associated with Reverse Transcriptase of Avian Sarcoma-Leukosis Viruses," in <i>Reverse Transcriptase</i> , Skalka, A.M. and Goff, S.P., eds., Cold Spring Harbor Laboratory Press, Plainview, NY, pp. 193-204 (1993)
	AS	13	Stemmer, W.P.C., "Rapid evolution of a protein <i>in vitro</i> by DNA shuffling," <i>Nature</i> 370:389-391, Macmillan Journals Ltd. (1994)
	AT	13	Strauss, H.S., et al., "Variables affecting the selectivity and efficiency of retention of DNA fragments by <i>E. coli</i> RNA polymerase in the nitrocellulose-filter-binding assay," <i>Gene</i> 13:75-87, Elsevier/North-Holland Biomedical Press (1981)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	14	1	Tosh, C., et al., "One-Tube and One-Buffer System of RT-PCR Amplification of 1D Gene of Foot-and-Mouth Disease Virus Field Isolates," Acta Virol. 41:153-155, Slovak Academic Press (1997)
h	AS	14	1	Verma, I., et al., "Studies on Reverse Transcriptase of RNA Tumor Viruses. III. Properties of Purified Moloney Murine Leukemia Virus DNA Polymerase and Associated RNase H," J. Virol. 15:843-854, American Society for Microbiology (1975)
2	AT	14	1	Wells, J.A., "Additivity of Mutational Effects in Proteins," Biochem. 29:8509-8517, The American Chemical Society (1990)

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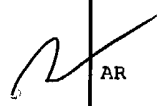
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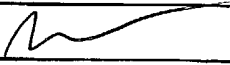
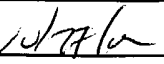
Page 15 of 15

FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE</u> <u>STATEMENT</u>	ATTY. DOCKET NO. 0942.5040001/RWE/MTT	APPLICATION NO. 0942.5040001/MTT TECH CENTER 1600/2900
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	15	Wu, W., et al., "Human Immunodeficiency Virus Type 1 Nucleocapsid Protein Reduces Reverse Transcriptase Pausing at a Secondary Structure near the Murine Leukemia Virus Polypurine Tract," J. Virol. 70:7132-7142, American Society for Microbiology (1996)
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